

**AMENDMENTS TO THE CLAIMS:**

The listing of claims will replace all prior versions, and listings of claims in the application:

**LISTING OF CLAIMS:**

1. (Currently Amended) A method for applying individualized calibrated tone-reproduction curves on a single page basis to enable printing of image data associated with a job having a plurality of pages, comprising ~~the steps of:~~

(a) providing a plurality of calibrated tone-reproduction curves, each calibrated tone-reproduction curve corresponding to a distinct media type;

(b) assigning a first media type to a first group of pages in the job;

(c) assigning a second media type to a second group of pages in the job;

(d) receiving a page of image data to be printed;

(e) selecting a calibrated tone-reproduction curve for the received page of image data based on the assigned media type; and

(f) applying the selected calibrated tone-reproduction curve to print the page of image data.

2. (Currently Amended) The method as claimed in claim 1, further comprising ~~the step of:~~

(g) printing of image data on a xerographic printing device using the selected calibrated tone-reproduction curve.

3. (Currently Amended) The method as claimed in claim 1, further comprising ~~the step of:~~

(g) determining a halftone to be used in printing the image data;

said step (a) providing a plurality of calibrated tone-reproduction curves, each calibrated tone-reproduction curve corresponding to a distinct halftone type and media type combination;

said step (e) selecting a calibrated tone-reproduction curve based on the assigned media type and determined halftone type.

4. (Currently Amended) The method as claimed in claim 1, further comprising ~~the steps of:~~

(g) performing a plurality of calibration operations, each calibration operation using a distinct media type;

(h) generating a tone-reproduction curve for each media type; and

(i) storing the generated the tone-reproduction curves;

said step (a) providing a plurality of stored calibrated tone-reproduction curves, each stored calibrated tone-reproduction curve corresponding to a distinct media type.

5. (Currently Amended) The method as claimed in claim 1, further comprising ~~the steps of:~~

(g) performing a plurality of calibration operations, each calibration operation using a distinct media type and halftone type combination;

(h) generating a tone-reproduction curve for each media type and halftone type combination;

(i) storing the generated the tone-reproduction curves; and

(j) determining a halftone to be used in printing the image data;

said step (a) providing a plurality of stored calibrated tone-reproduction curves, each stored calibrated tone-reproduction curve corresponding to a distinct media type and halftone type combination;

said step (e) selecting a calibrated tone-reproduction curve based on the assigned media type and determined halftone type.

6. (Currently Amended) The method as claimed in claim 1, further comprising ~~the steps of:~~

(g) performing a plurality of calibration operations, each calibration operation using a distinct media type;

(h) generating a tone-reproduction curve for each media type calibration;

(i) comparing the plurality of tone-reproduction curves to group tone-reproduction curves having similar characteristics;

(j) selecting a single tone-reproduction curve from a group of tone-

reproduction curves having similar characteristics, each single tone-reproduction curve being the tone-reproduction curve associated with the media types that generated the tone-reproduction curve having similar characteristics;

(k) storing selected and non-grouped tone-reproduction curves; and

(l) generating a map to link a stored tone-reproduction curve to a media type, a stored tone-reproduction curve being capable of being mapped to more than one media type;

said step (a) providing a plurality of stored calibrated tone-reproduction curves, each stored calibrated tone-reproduction curve corresponding to a distinct media type.

7. (Currently Amended) The method as claimed in claim 1, further comprising the steps of:

(g) performing a plurality of calibration operations, each calibration operation using a distinct media type and halftone type combination;

(h) generating a tone-reproduction curve for each media type and halftone type combination calibration;

(i) comparing the plurality of tone-reproduction curves to group tone-reproduction curves having similar characteristics;

(j) selecting a single tone-reproduction curve from a group of tone-reproduction curves having similar characteristics, each single tone-reproduction curve being the tone-reproduction curve associated with the media type and halftone type combinations that generated the tone-reproduction curve having similar characteristics;

(k) storing selected and non-grouped tone-reproduction curves; and

(l) generating a map to link a stored tone-reproduction curve to a media type and halftone type combination, a stored tone-reproduction curve being capable of being mapped to more than one media type and halftone type combination; and

(m) determining a halftone to be used in printing the image data;

said step (a) providing a plurality of stored calibrated tone-reproduction curves, each stored calibrated tone-reproduction curve corresponding to a distinct media type and halftone type combination;

said step (e) selecting a calibrated tone-reproduction curve based on the assigned media type and determined halftone type.

8. (Currently Amended) A system for applying individualized calibrated tone-reproduction curves on a single page basis to enable printing of image data associated with a job having a plurality of pages, comprising:

a storage device to store and provide a plurality of calibrated tone-reproduction curves, each calibrated tone-reproduction curve corresponding to a distinct media type;

an input device to assign a first media type to a first group of pages in the job and to assign a second media type to a second group of pages in the job;

and a processor to receiving receive a page of image data to be printed, to select a calibrated tone-reproduction curve for the received page of image data based on the assigned media type, and to apply the selected calibrated tone-reproduction curve to print the page of image data.

9. (Original) The system as claimed in claim 8, further comprising:  
a xerographic printing device using the selected calibrated tone-reproduction curve to print images.

10. (Original) The system as claimed in claim 8, wherein:  
said input device selects a halftone to be used in printing the image data;  
said storage device provides a plurality of calibrated tone-reproduction curves, each calibrated tone-reproduction curve corresponding to a distinct halftone type and media type combination;

said processor selects a calibrated tone-reproduction curve based on the assigned media type and selected halftone type.

11. (Original) The system as claimed in claim 8, further comprising:  
calibration means for performing a plurality of calibration operations, each calibration operation using a distinct media type;  
said calibration means generating a tone-reproduction curve for each media type; said storage device storing the generated the tone-reproduction curves and providing a plurality of stored calibrated tone-reproduction curves, each stored

calibrated tone-reproduction curve corresponding to a distinct media type.

12. (Original) The system as claimed in claim 8, further comprising:
- calibration means for performing a plurality of calibration operations, each calibration operation using a distinct media type;
  - said calibration means generating a tone-reproduction curve for each media type; said input device selecting a halftone to be used in printing the image data;
  - said storage device storing the generated the tone-reproduction curves and providing a plurality of stored calibrated tone-reproduction curves, each stored calibrated tone-reproduction curve corresponding to a distinct halftone type and media type combination;
  - said processor selecting a calibrated tone-reproduction curve based on the assigned media type and selected halftone type.

13. (Original) The system as claimed in claim 8, further comprising:
- calibration means for performing a plurality of calibration operations, each calibration operation using a distinct media type; said calibration means generating a tone-reproduction curve for each media type calibration;
  - said calibration means comparing the plurality of tone-reproduction curves to group tone-reproduction curves having similar characteristics;
  - said calibration means selecting a single tone-reproduction curve from a group of tone-reproduction curves having similar characteristics, each single tone-reproduction curve being the tone-reproduction curve associated with the media types that generated the tone-reproduction curve having similar characteristics;
  - said storage device storing selected and non-grouped tone-reproduction curves; said calibration means generating a map to link a stored tone-reproduction curve to a media type, a stored tone-reproduction curve being capable of being mapped to more than one media type;
  - said storage device providing a plurality of stored calibrated tone-reproduction curves, each stored calibrated tone-reproduction curve corresponding to a distinct media type.

14. (Original) The system as claimed in claim 8, further comprising:
- calibration means for performing a plurality of calibration operations, each calibration operation using a distinct media type and halftone type combination; said calibration means generating a tone-reproduction curve for each media type and halftone type combination calibration;
  - said calibration means comparing the plurality of tone-reproduction curves to group tone-reproduction curves having similar characteristics;
  - said calibration means selecting a single tone-reproduction curve from a group of tone-reproduction curves having similar characteristics, each single tone-reproduction curve being the tone-reproduction curve associated with the media type and halftone type combinations that generated the tone-reproduction curve having similar characteristics;
  - said storage device storing both selected and non-grouped tone-reproduction curves; said calibration means generating a map to link a stored tone-reproduction curve to a media type and halftone type combination, a stored tone-reproduction curve being capable of being mapped to more than one media type and halftone type combination; and
  - said input device selecting a halftone to be used in printing the image data; said storage device providing a plurality of stored calibrated tone-reproduction curves, each stored calibrated tone-reproduction curve corresponding to a distinct media type and halftone type combination;
  - said processor selecting a calibrated tone-reproduction curve based on the assigned media type and selected halftone type.

15. (Original) The system as claimed in claim 8, further comprising:
- an auto-segmentation circuit to determine a halftone to be used in printing the image data; said storage device providing a plurality of calibrated tone-reproduction curves,
  - each calibrated tone-reproduction curve corresponding to a distinct halftone type and media type combination; said processor selecting a calibrated tone-reproduction curve based on the assigned media type and determined halftone type.

16. (Original) The system as claimed in claim 8, further comprising:  
calibration means for performing a plurality of calibration operations, each calibration operation using a distinct media type;

said calibration means generating a tone-reproduction curve for each media type; and an auto-segmentation circuit to determine a halftone to be used in printing the image data;

said storage device storing the generated the tone-reproduction curves and providing a plurality of stored calibrated tone-reproduction curves, each stored calibrated tone-reproduction curve corresponding to a distinct halftone type and media type combination;

said processor selecting a calibrated tone-reproduction curve based on the assigned media type and determined halftone type.

17. (Currently Amended) A method for applying individualized calibrated tone-reproduction curves on a single page basis to enable printing of image data associated with a job having a plurality of pages, comprising ~~the steps of~~:

(a) performing a plurality of calibration operations, each calibration operation using a distinct media type;

(b) generating a tone-reproduction curve for each media type;

(c) storing the generated the tone-reproduction curves;

(d) assigning a first media type to a first group of pages in the job;

(e) assigning a second media type to a second group of pages in the job;

(f) receiving a page of image data to be printed;

(g) selecting a calibrated tone-reproduction curve for the received page of image data based on the assigned media type; and

(h) applying the selected calibrated tone-reproduction curve to print the page of image data.

18. (Currently Amended) The method as claimed in claim 17, further comprising ~~the step of~~:

(i) printing of image data on a xerographic printing device using the selected calibrated tone-reproduction curve.